

FIG. 1a

PRIOR ART

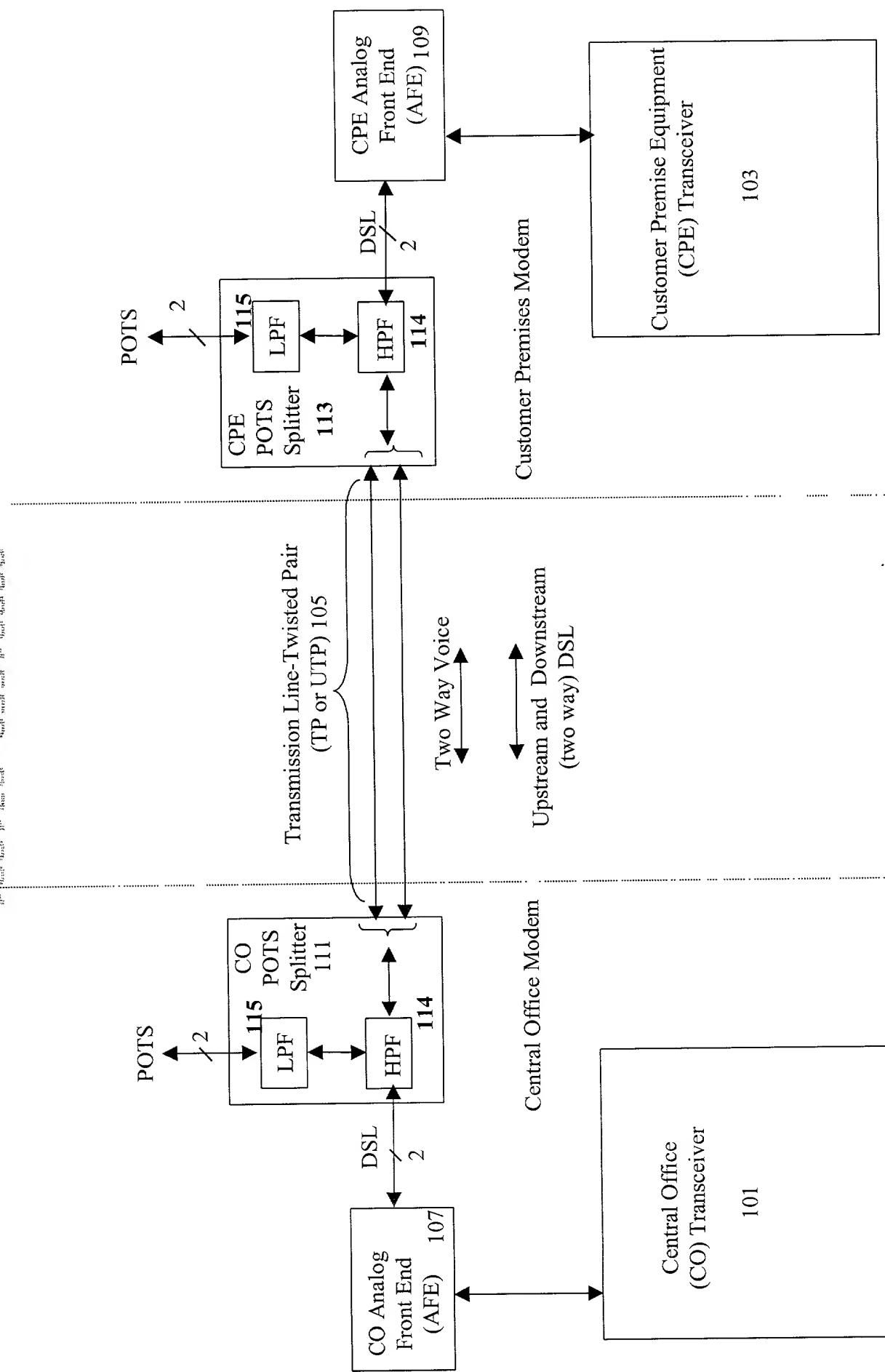
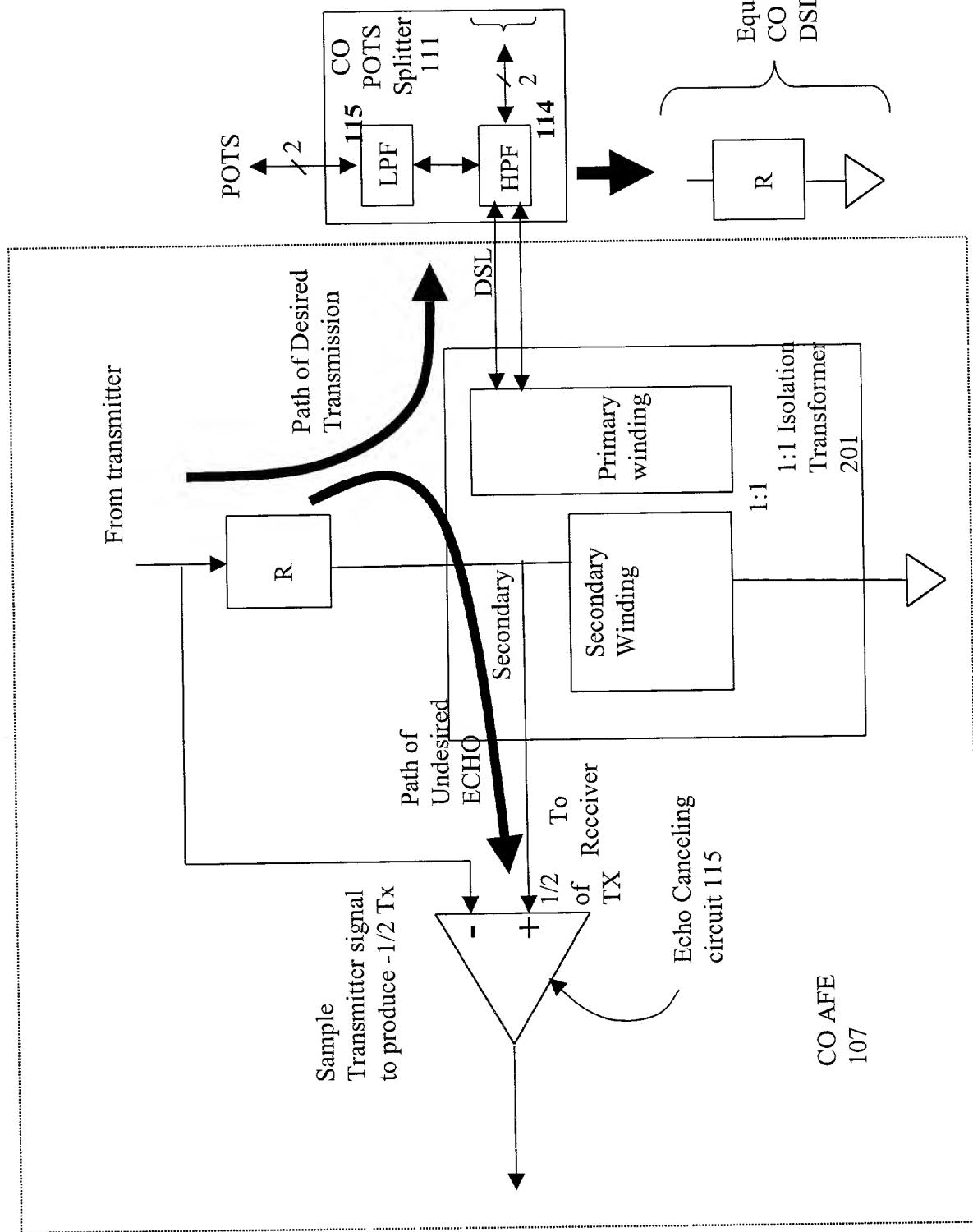
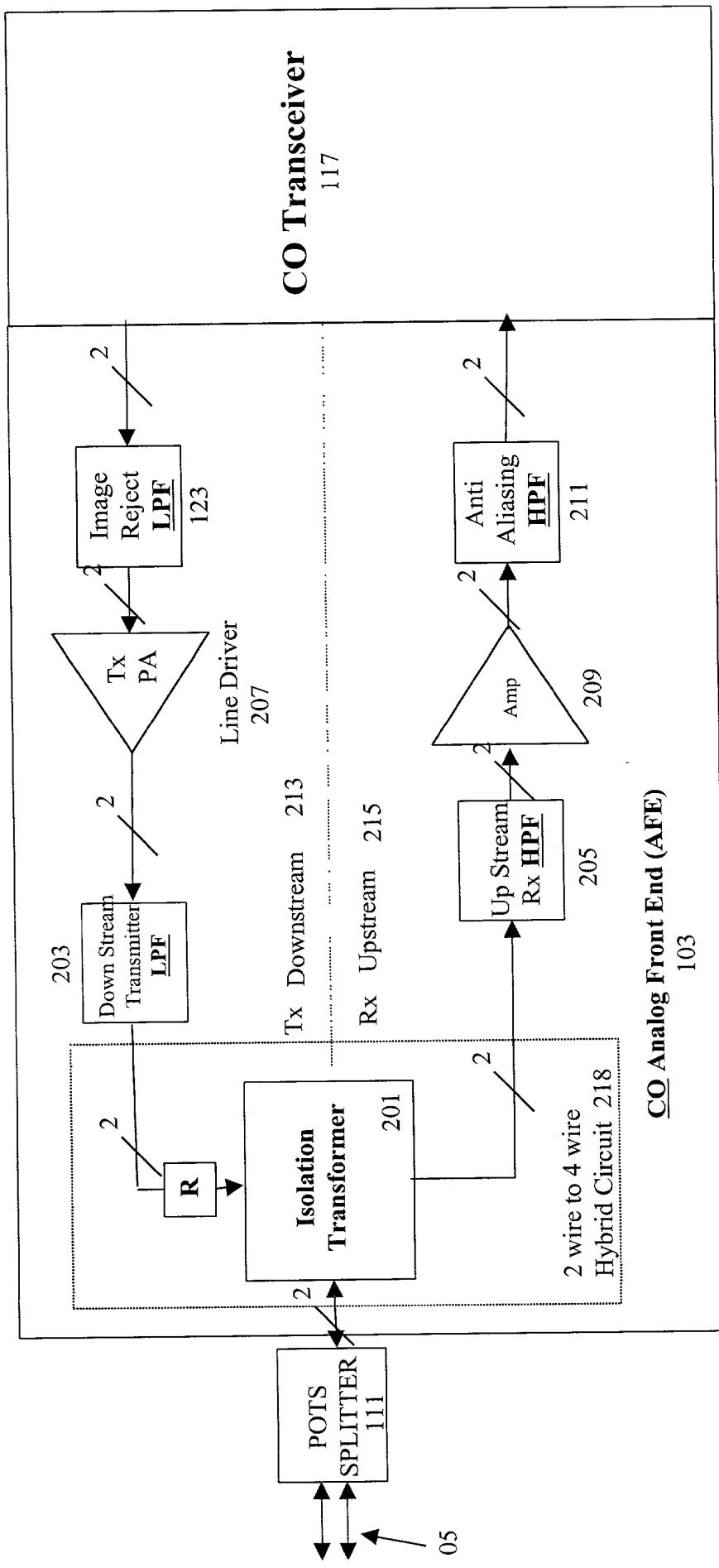


FIG. 1b



PRIOR ART

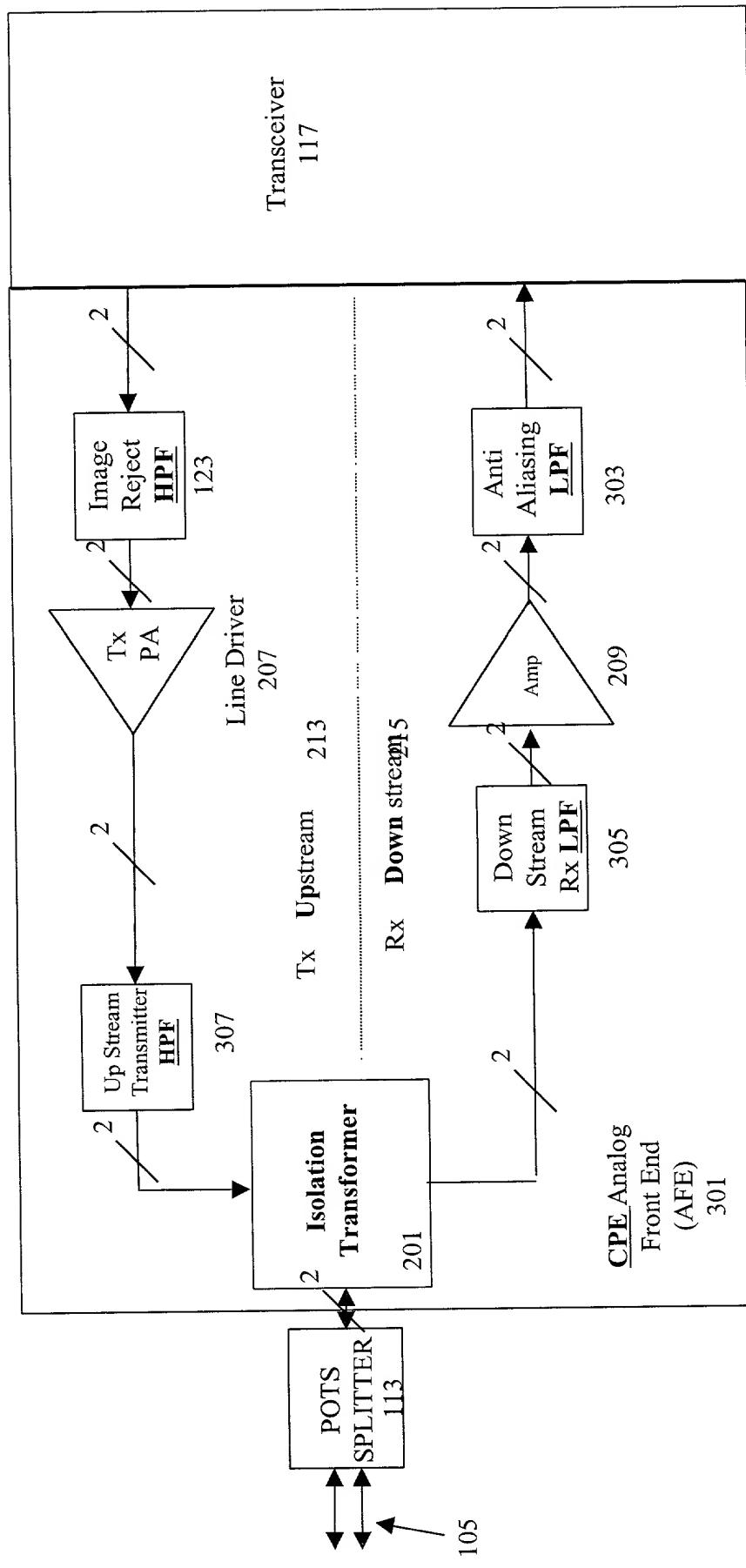
Balanced CO AFE



xDSL CARD for CO

FIG. 2

Ballanced CPE AFE PRIOR ART



xDSL CARD for CPE

FIG. 3

CO Modem 400

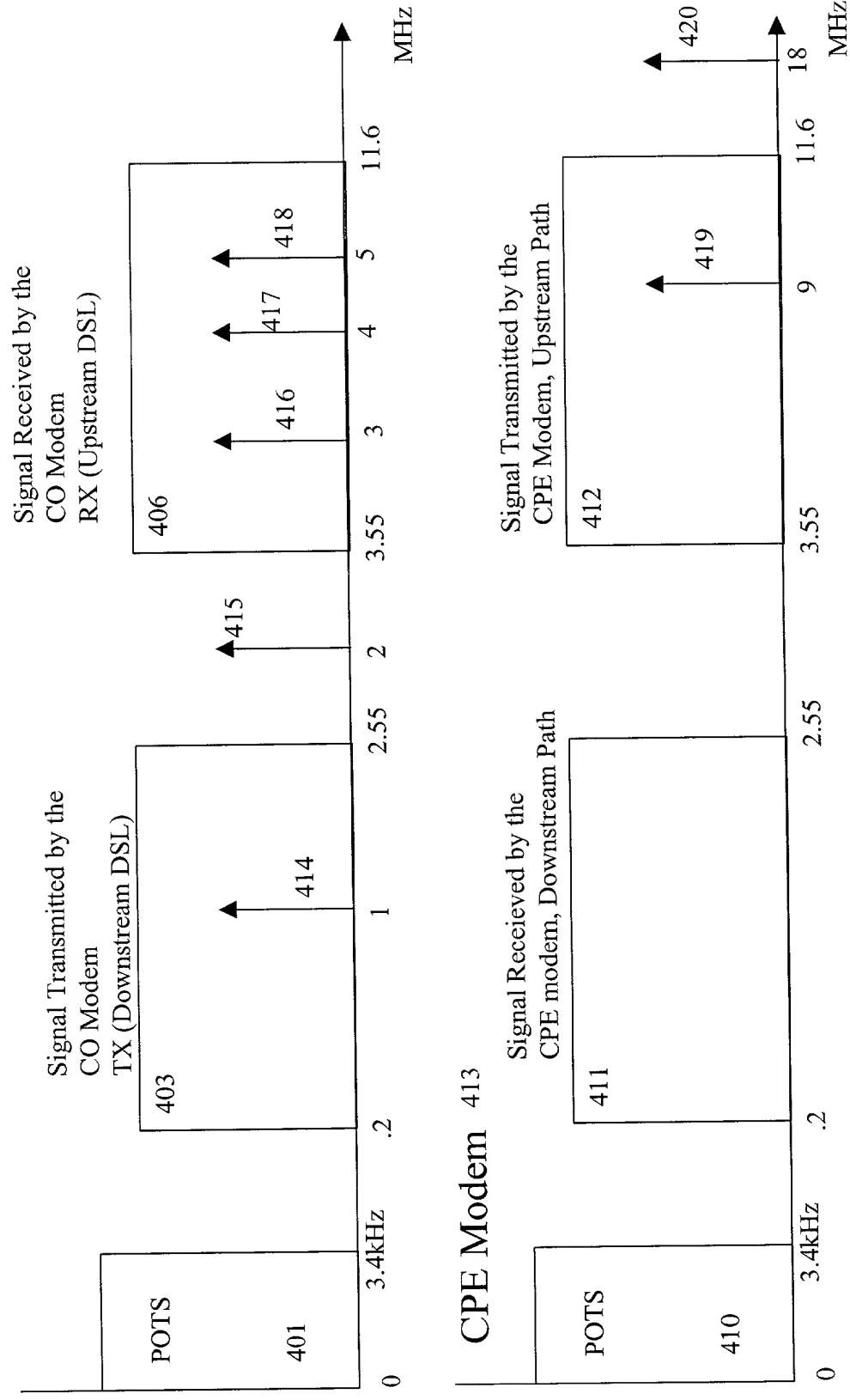


FIG. 4

Single Ended CO AFE

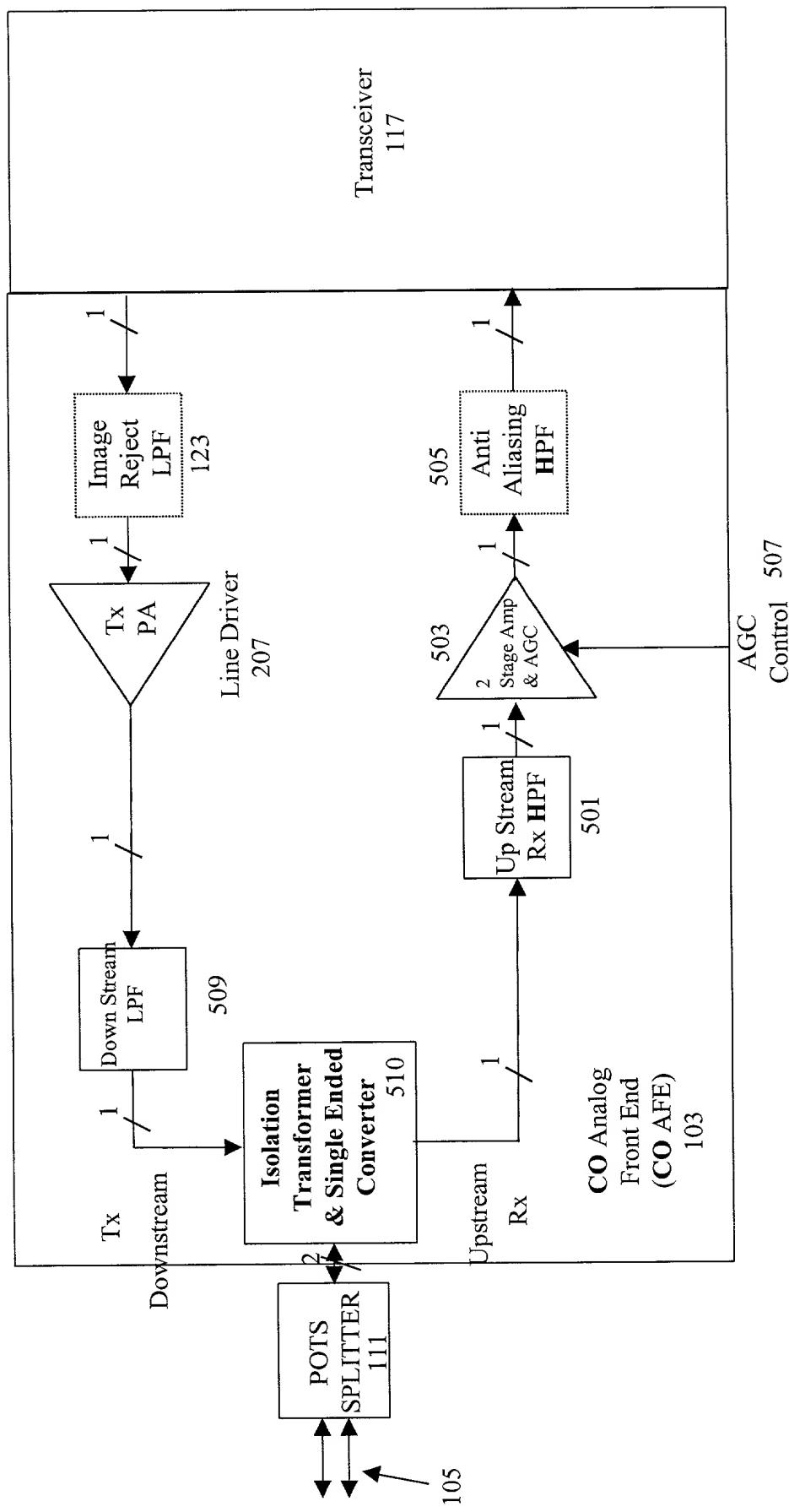


FIG. 5a

xDSL CARD for CO

Single Ended CPE AFE

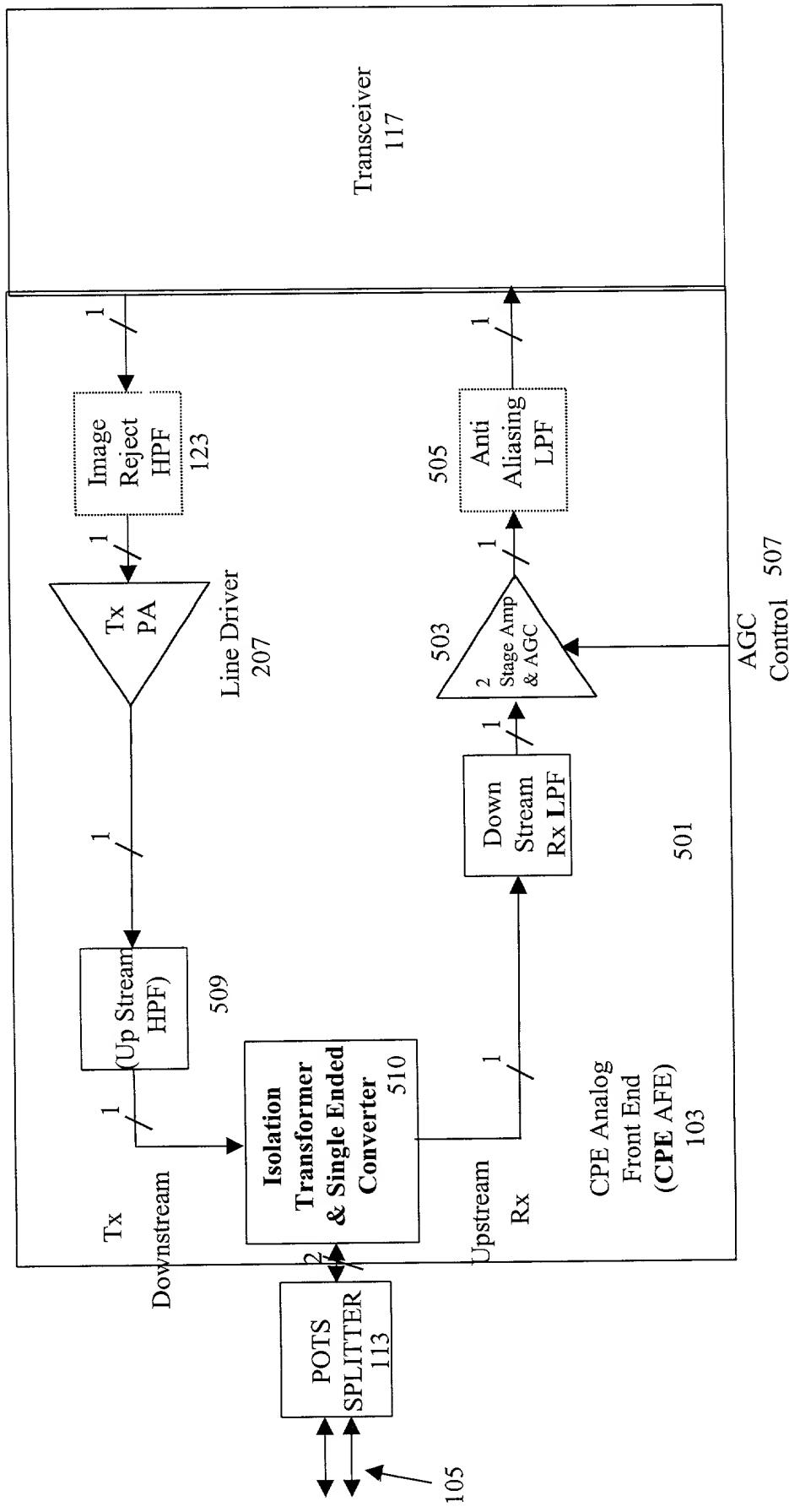
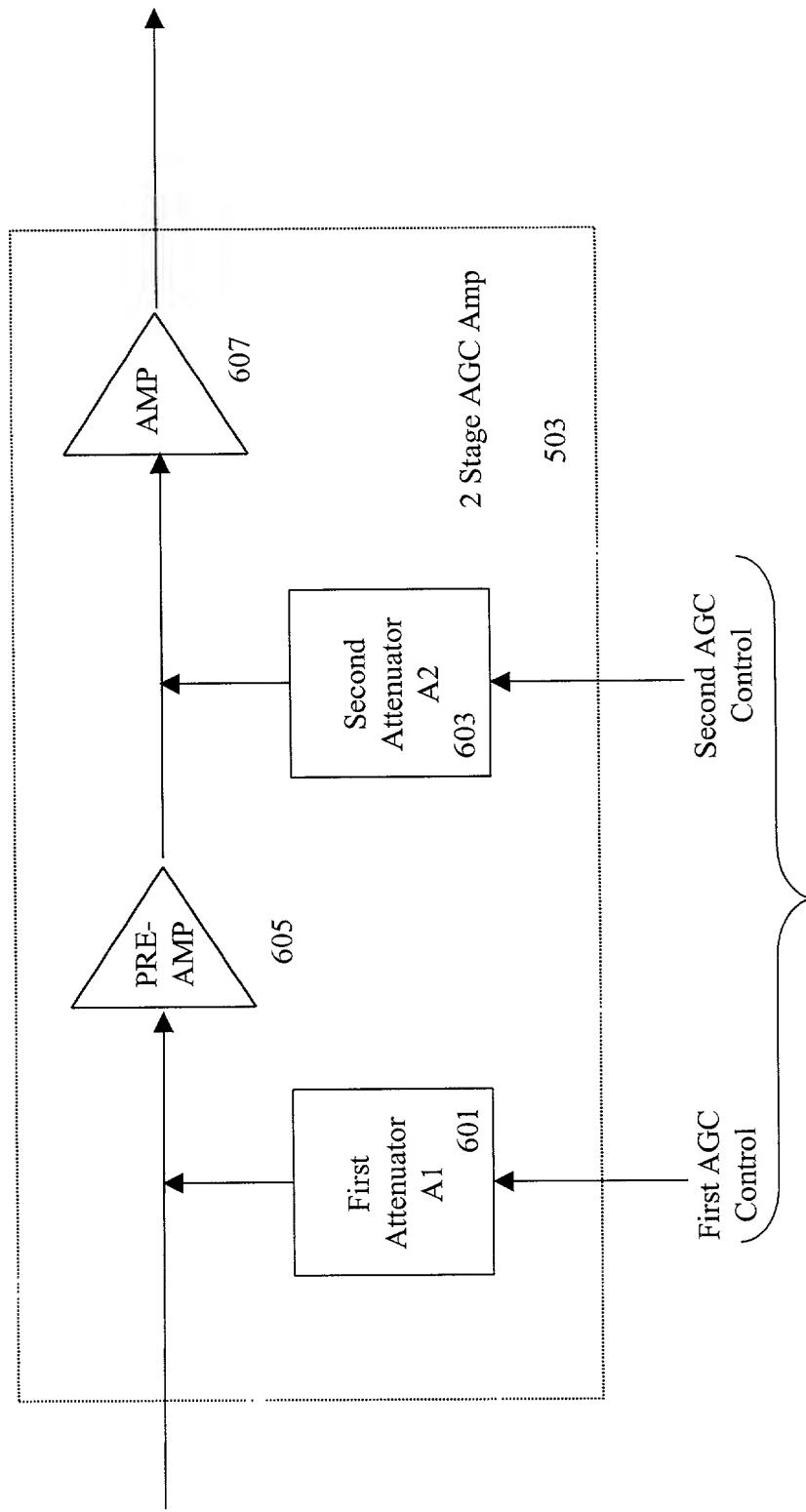


FIG. 5b

xDSL CARD for CPE

FIG. 6

AGC Control 507



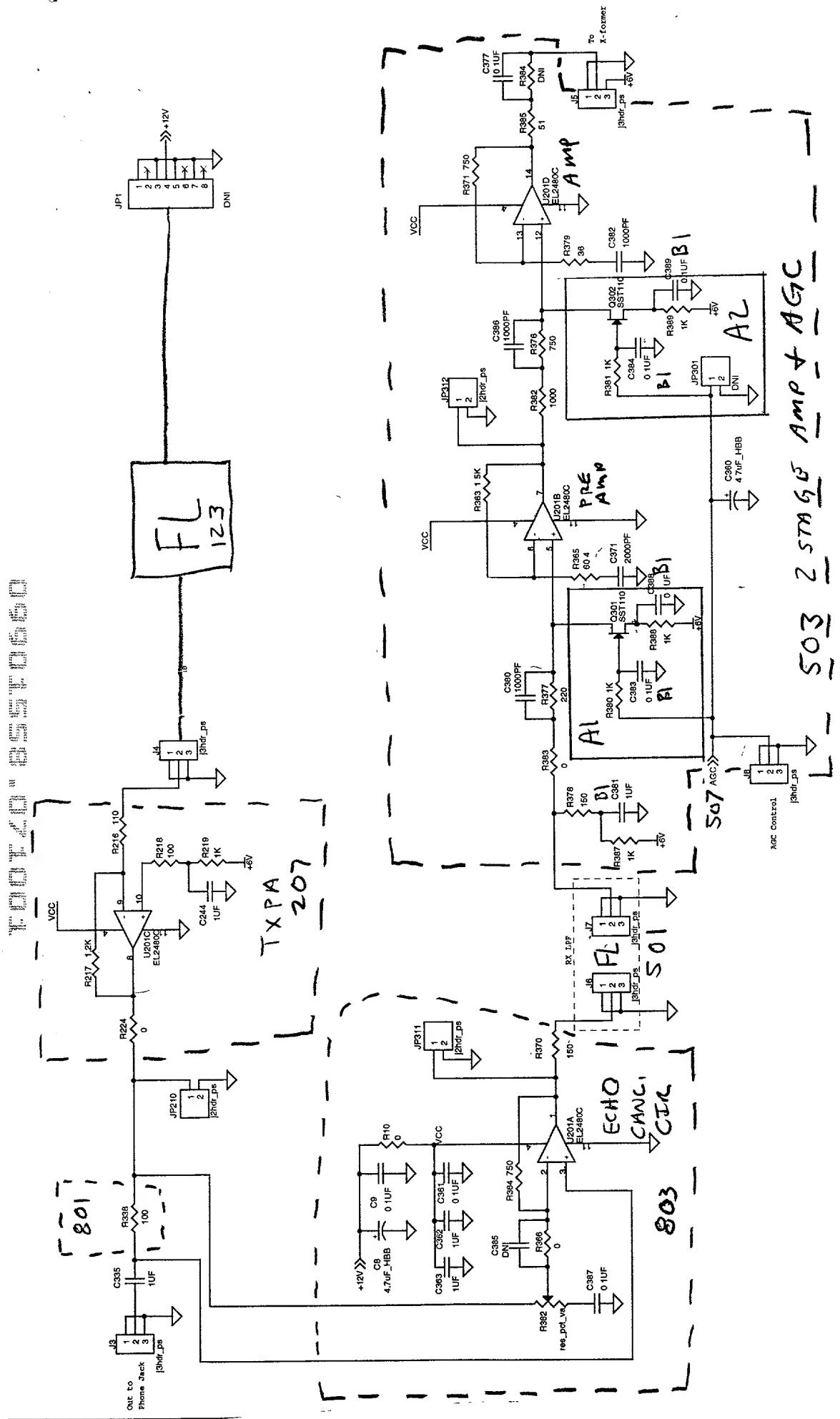


FIG. 8

xDSL CARD for CO (CPE)

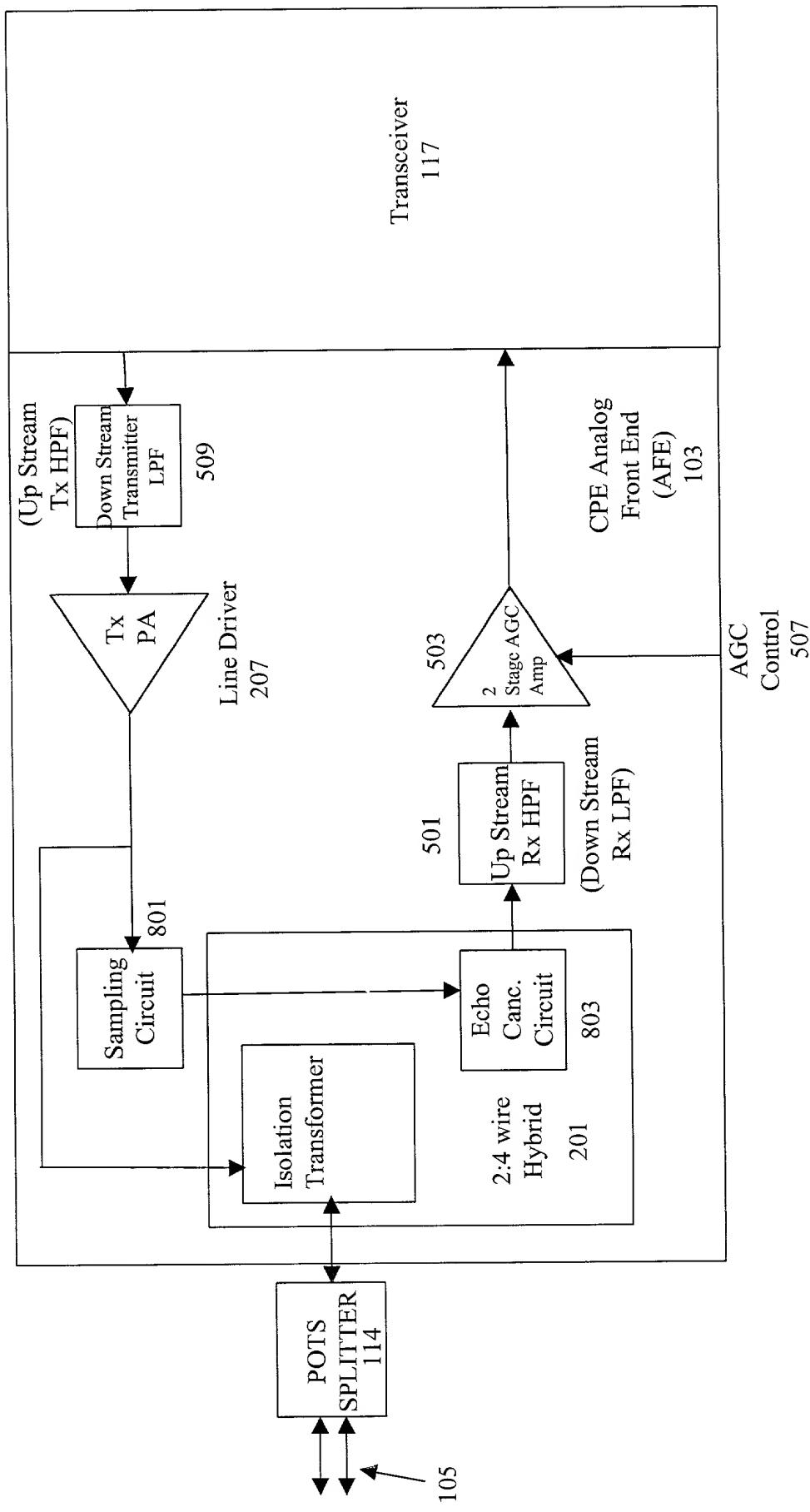


FIG. 9

CUSTOMER PREMISE EQUIPMENT (CO) SIDE AFE 919 Residual transmitter Echo Distortion

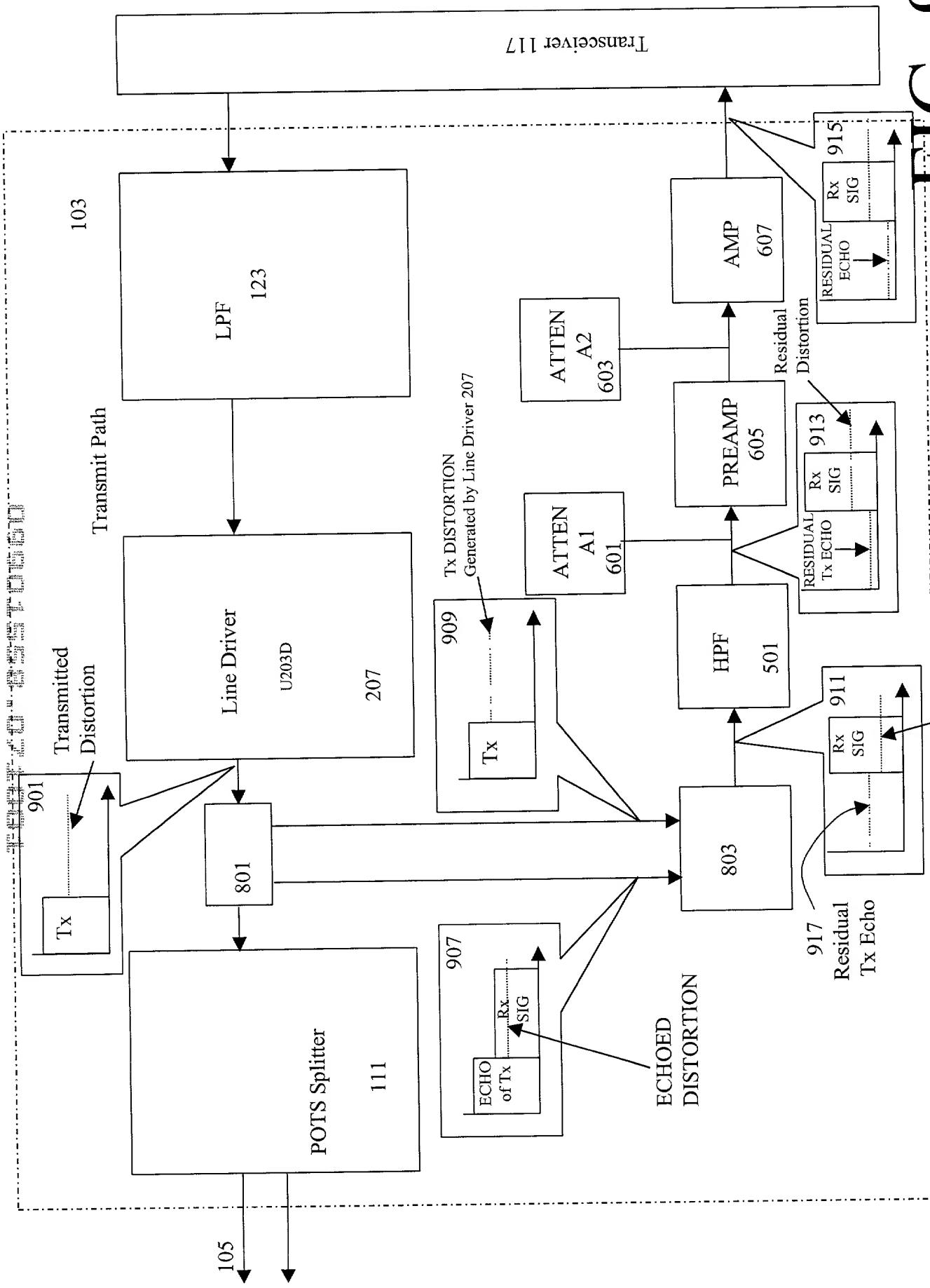
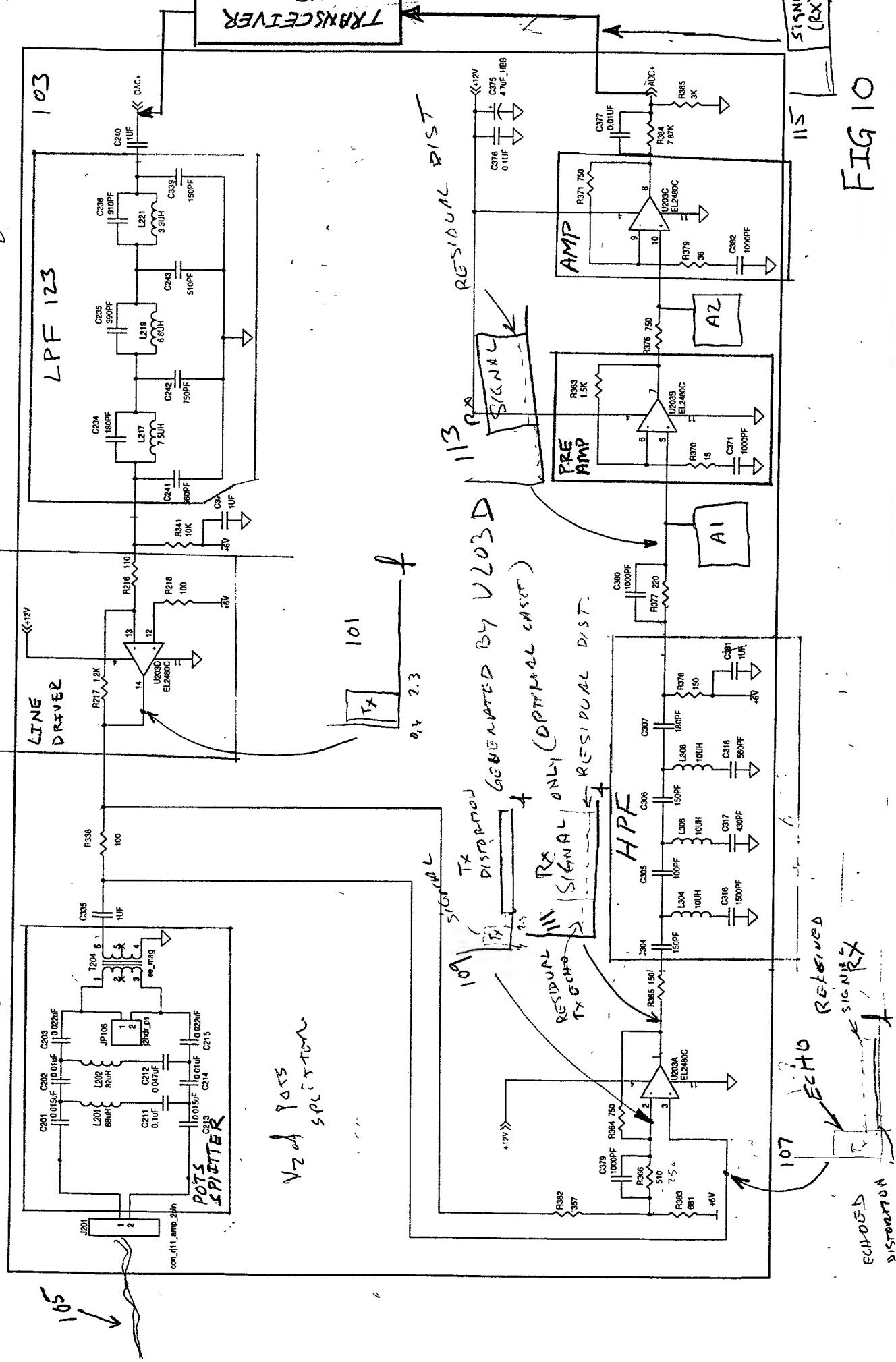
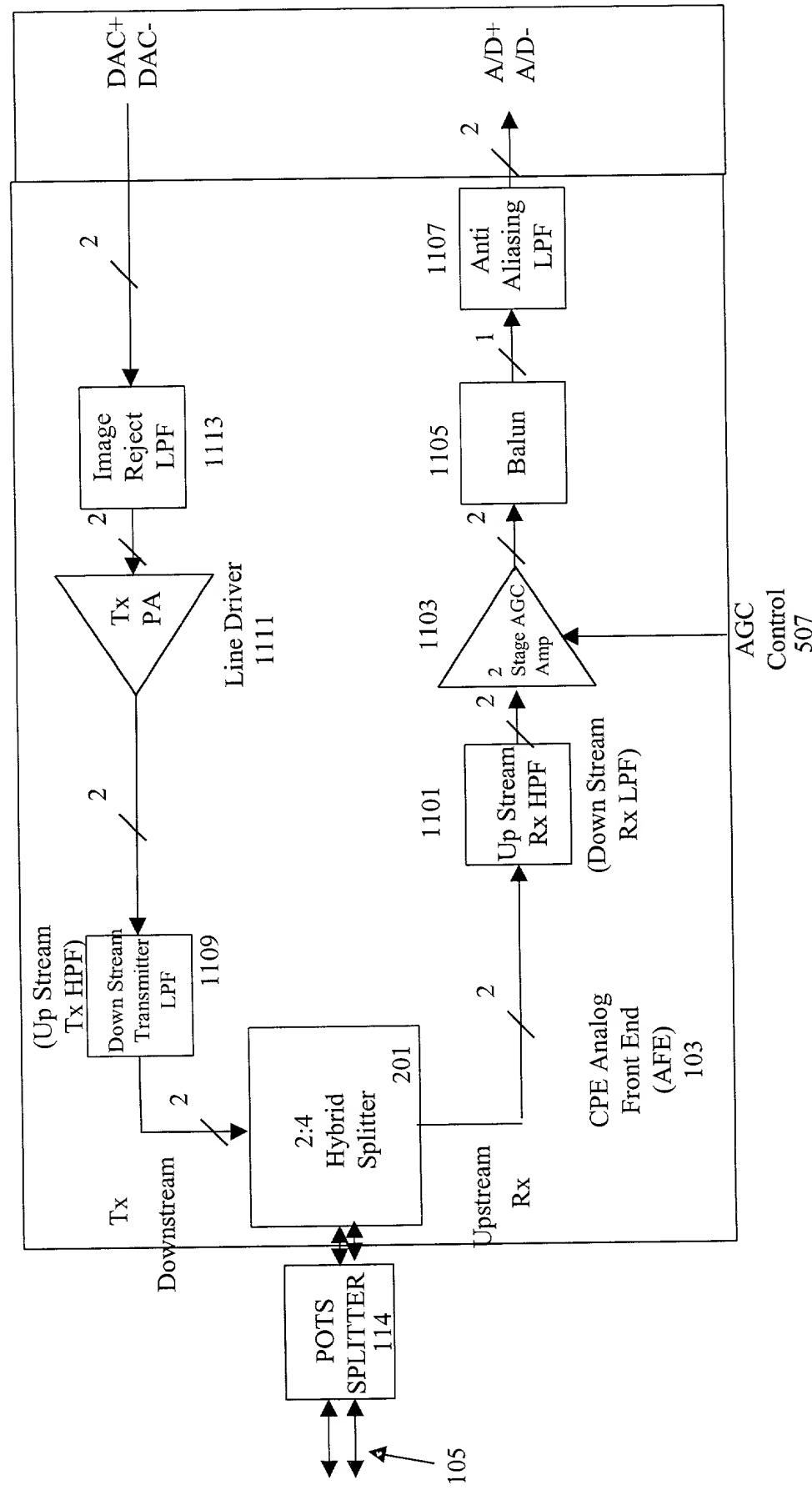


Figure 4 – xDSL Typical Block Diagram



LIGHTNING INSENSITIVE AFE (BPF) EMBODIMENT

Transceiver
117



xDSL CARD for CO (CPE)

lightning Insensitive Version

FIG. 11

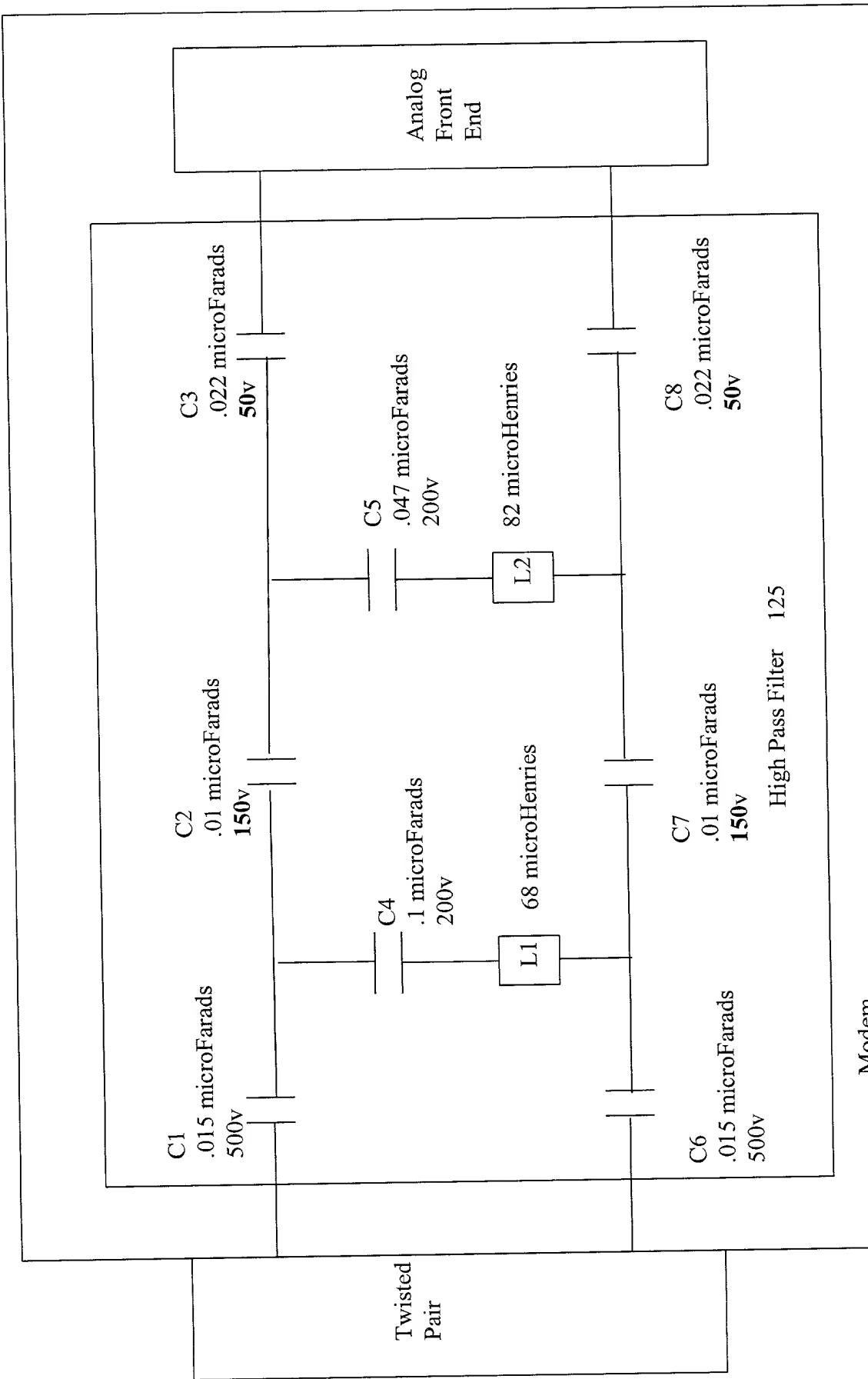


FIG. 12

FIG. 13

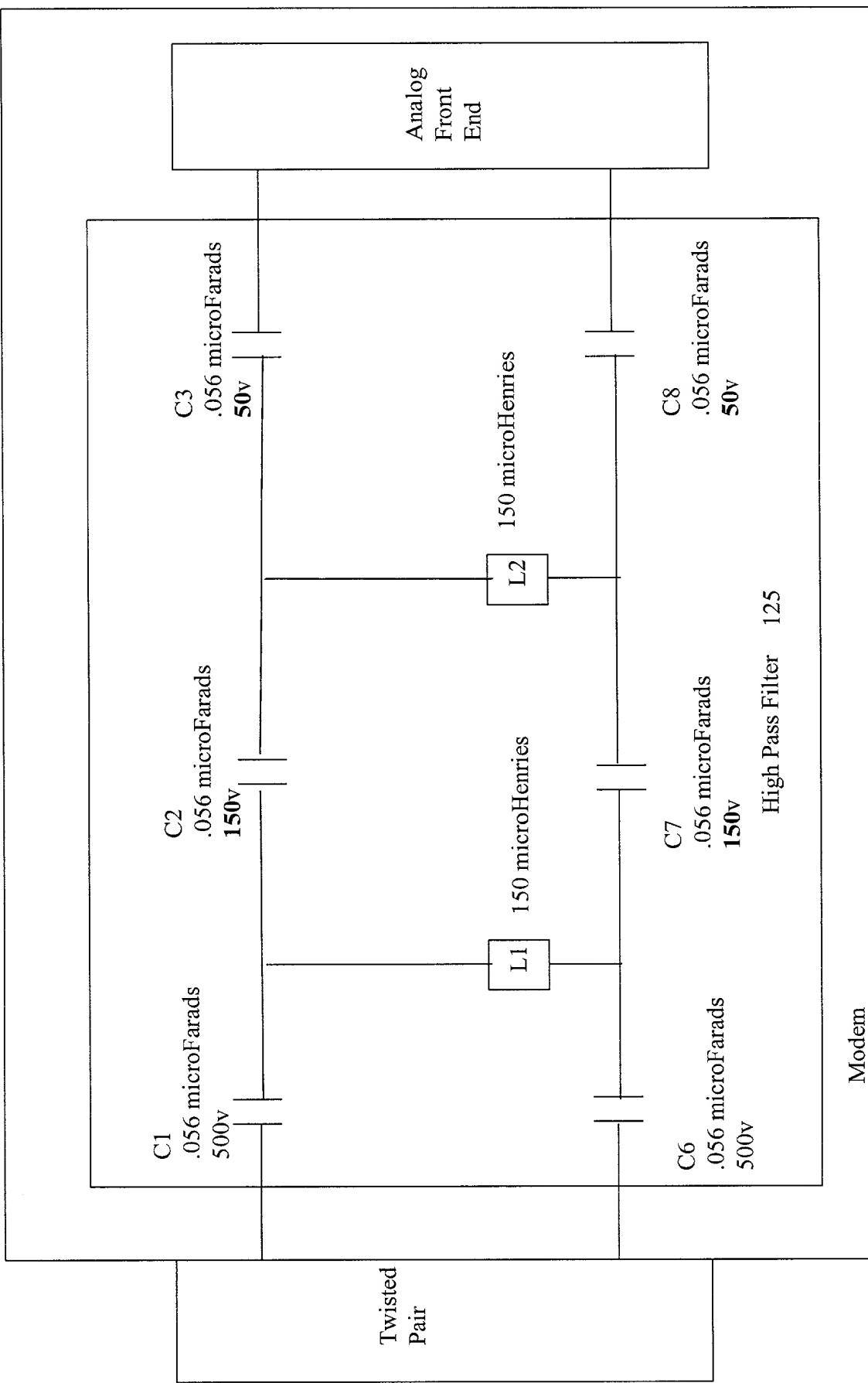


FIG. 14

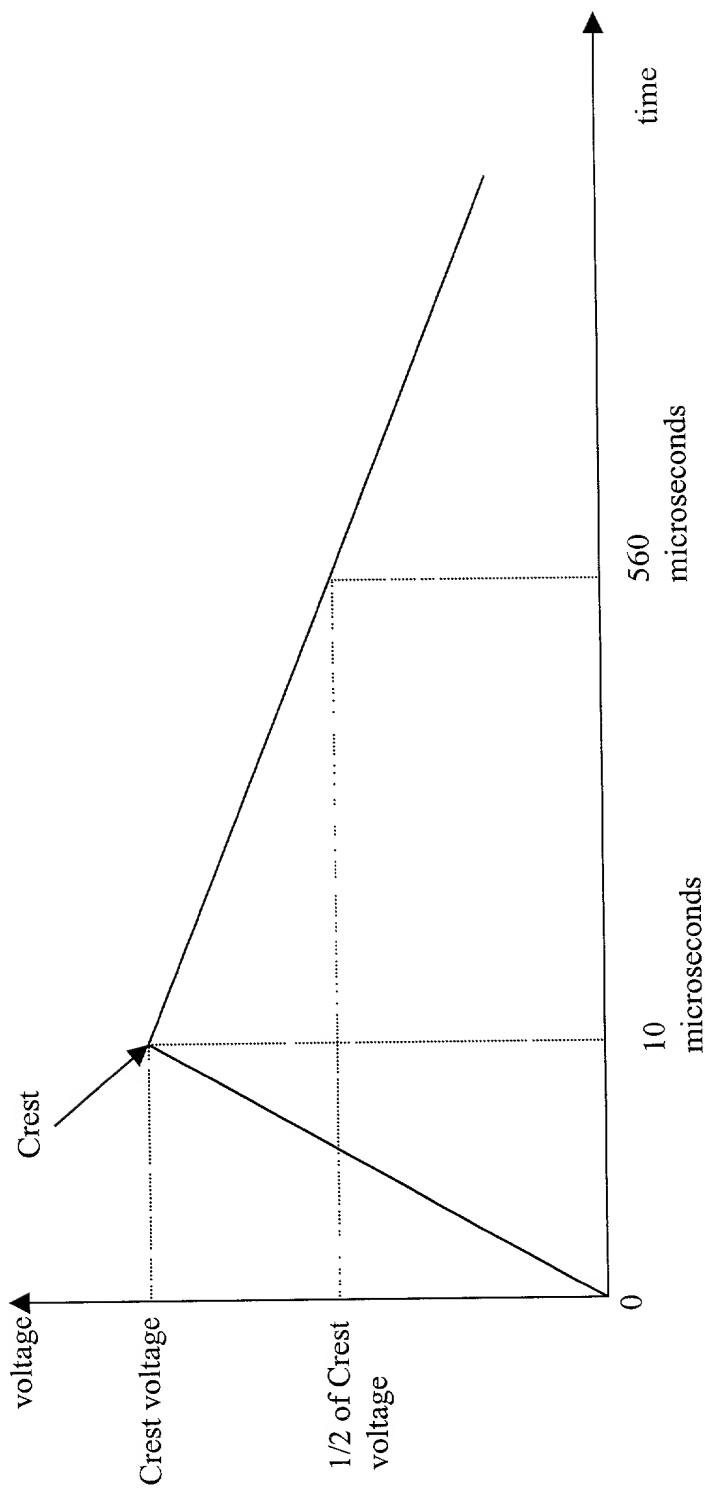


FIG. 15

